



Chromatography Data
Systems Market to be Worth
\$1.7 billion by 2030



According to this latest publication from Meticulous Research*, the [chromatography data systems market](#) is projected to reach \$1.7 billion by 2030, at a CAGR of 7.5% from 2023 to 2030. The growth of this market is driven by growing R&D expenditure in pharmaceutical and food & beverage industries, the use of chromatography systems for food quality testing, and technological advancements. Additionally, emerging economies are creating opportunities for market growth. However, the lack of integration standards for laboratory informatics restrains the growth of this market to a notable extent.

Food Safety Regulations and Food Quality Testing Increases the Demand for Chromatography Data Systems

Food safety standards aim to assess safe food production and distribution throughout the food supply chain. These standards vary in each country. All food businesses are required to follow food safety standards and comply with these standards to protect public health by preventing foodborne illnesses. In the U.S., the FDA Food Safety Modernization Act (FSMA) provides regulations to protect consumers from foodborne illness and promote public health. Furthermore, the U.S. FDA Center for Food Safety and Applied Nutrition (CFSAN) oversees the regulation of food ingredients, and premarket approval is required before a food ingredient is brought to market.

Compared to the U.S., European food laws are stringent towards food additive ingredients and chemical substances suspected of having carcinogenic effects on humans. Hence, food regulation plays a critical role in public concerns about food adulteration, junk foods and the indiscriminate use of chemicals in food processing. To maintain these standards, food & beverage companies use the chromatography technique to identify the components in the food.

Food & beverage companies analyze their products for nutrients such as proteins, vitamins, preservatives, and contaminants. By using chromatography, companies can test their products for nutritional quality. Furthermore, to analyze and manage chromatographic data, these companies use chromatographic data systems, which help them integrate the data and import and export it when needed. Hence, the increased use of chromatography techniques for food quality drives the demand for chromatography data systems for workflow management.

The chromatography data systems market is segmented by product (standalone software and integrated software), delivery mode (on-premise and cloud/web-based), end user (academic & research institutes, pharmaceutical & biotechnology industries, food & beverages industry, environmental testing, and other end users), and geography. The study also evaluates industry competitors and analyzes the regional and country-level markets.

Based on product, the integrated software segment is projected to register the highest CAGR during the forecast period. Integrated software enables integration of the system with other informatics solutions, such as laboratory information management systems and

clinical data management systems installed in the laboratory. Integrated software prevents the reentry of data from different systems and helps in the traceability of chromatography data. The need for integrated software is expected to increase year on year across various industries, which will require effective management of chromatography data. This is expected to increase the demand for integrated software in the coming years.

Based on delivery mode, the cloud/web-based segment is projected to register the highest CAGR during the forecast period. The growth of this segment is driven by its benefits such as ease in accessibility, increasing data safety, privacy, and cost effectiveness in terms of capital investment.

Based on end user, in 2023, the pharmaceutical & biotechnology industries segment is expected to account for the largest share of the chromatography data systems market. The large market share of this segment is attributed to the increased adoption of chromatography in these industries for various applications such as drug formulation, purity analysis, and clinical studies. Furthermore, growing R&D and a high volume of pharmaceutical products are driving the demand for chromatography systems, further boosting the growth of this market.

Geographic Review

This research report analyzes major geographies and provides a comprehensive analysis of North America (U.S., Canada), Europe (Germany, France, U.K., Italy, Spain, and the Rest of Europe), Asia-Pacific (China, Japan, India, and Rest of Asia-Pacific), Latin America (Brazil, Mexico, and Rest of Latin America), and the Middle East & Africa. In 2023, North America is expected to account for the largest share of the chromatography data systems market, followed by Europe and Asia-Pacific. The increased R&D expenditure, well-established healthcare system, and higher spending on healthcare information technology are the major factors contributing to the large share of this market.

Key Players

The key players operating in the chromatography data systems market are Advanced Chemistry Development, Inc. (Canada), Shimadzu Corporation (Japan), Agilent Technologies, Inc. (U.S.), Bio-Rad Laboratories, Inc. (U.S.), Waters Corporation (U.S.), DataApex, spol. s r.o. (Czech Republic), Gilson, Inc. (U.S.), JASCO (U.S.), Thermo Fisher Scientific Inc. (U.S.), PerkinElmer, Inc. (U.S.), KNAUER Wissenschaftliche Geräte GmbH (Germany), SCION Instruments NL BV (Netherlands), and Justice Innovations Inc. (U.S.).

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Key questions answered in the report–

- Which are the high-growth market segments in terms of product, delivery mode, end user, and geography?
- What was the historical market for chromatography data systems across the globe?
- What are the market forecasts and estimates for the period 2023–2030?
- What are the major drivers, restraints, opportunities, and challenges in the chromatography data systems market?
- Who are the major players in the chromatography data systems market?
- What is the competitive landscape, and who are the market leaders in the chromatography data systems market?

Contact Us:

Meticulous Research®

Email- sales@meticulousresearch.com

Contact Sales- +1-646-781-8004

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